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“Translational Nanomaterials for Imaging and Radiotherapy”

Abstract: Nanomaterials have received significant attention for their roles as contrast agents and to potentiate radiation-based therapies. However, their clinical translation is held back by concerns over their low excretion and long-term retention. Enabling excretion by forming ultras-small nanoparticles will be described. Moreover, methods to address the shortcoming of low tumor accumulation of these nanoparticles will be explored. Examples of successful tumor imaging/therapy with these systems will be reviewed.